(19) World Intellectual Property Organization

International Bureau





(43) International Publication Date 9 September 2005 (09.09.2005)

PCT

(10) International Publication Number WO 2005/083582 A2

(51) International Patent Classification⁷:

G06F 15/76

(21) International Application Number:

PCT/GB2005/000711

(22) International Filing Date: 25 February 2005 (25.02.2005)

(25) Filing Language:

English

(26) Publication Language:

English

(30) Priority Data:

0404443.4

27 February 2004 (27.02.2004) GB

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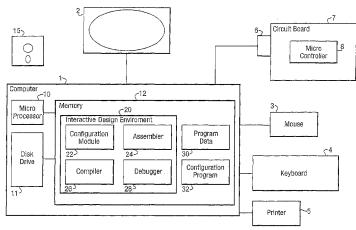
- (81) Designated States (unless otherwise indicated, for every kind of national protection available): AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH, CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KP, KR, KZ, LC, LK, LR, LS, LT, LU, LV, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW.
- (84) Designated States (unless otherwise indicated, for every kind of regional protection available): ARIPO (BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW), Eurasian (AM, AZ, BY, KG, KZ, MD, RU, TJ, TM), European (AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, MC, NL, PL, PT, RO, SE, SI, SK, TR), OAPI (BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG).

Published:

 without international search report and to be republished upon receipt of that report

For two-letter codes and other abbreviations, refer to the "Guidance Notes on Codes and Abbreviations" appearing at the beginning of each regular issue of the PCT Gazette.

(54) Title: METHOD AND APPARATUS FOR GENERATING CONFIGURATION DATA



(57) Abstract: A computer system (1) is described for programming and testing microcontrollers (8). The computer System (1) includes an interactive design environment (20) comprising a configuration module (22), an assembler (24), a compiler (26) and a debugger (28). The compiler (26), assembler (24) and debugger (28) all enable high level program data (30) to be converted into binary code and stored within a program store to control the functioning of a CPU included within a micro-controller (8). The configuration module (22) is such to enable a user to generate a configuration program (30) for storing values in registers for controlling the settings of inbuilt peripherals in the micro-controller (8) and the routing of signals to and from the peripherals. The register values for routing signals are identified in a two stage process. Firstly utilising the configuration module (22) a user identifies which peripherals are to be enabled. A user interface is then generated to illustrate possible configurations for routing the signals necessary for the identified set of peripherals. A user can then select which of the identified sets of configuration data should be used to generate a configuration program (20).

